

Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado (New Mexico)	2490 West 26th Ave., Denver, CO 80211
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno, NV 89505
Oregon	1220 Southwest 3rd Ave., 16th Floor, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82602

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta, T3C 1A6.

Utah

Water Supply Outlook

and

Federal – State – Private Cooperative Snow Surveys

Issued by

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Washington, D. C.

Released by

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In cooperation with

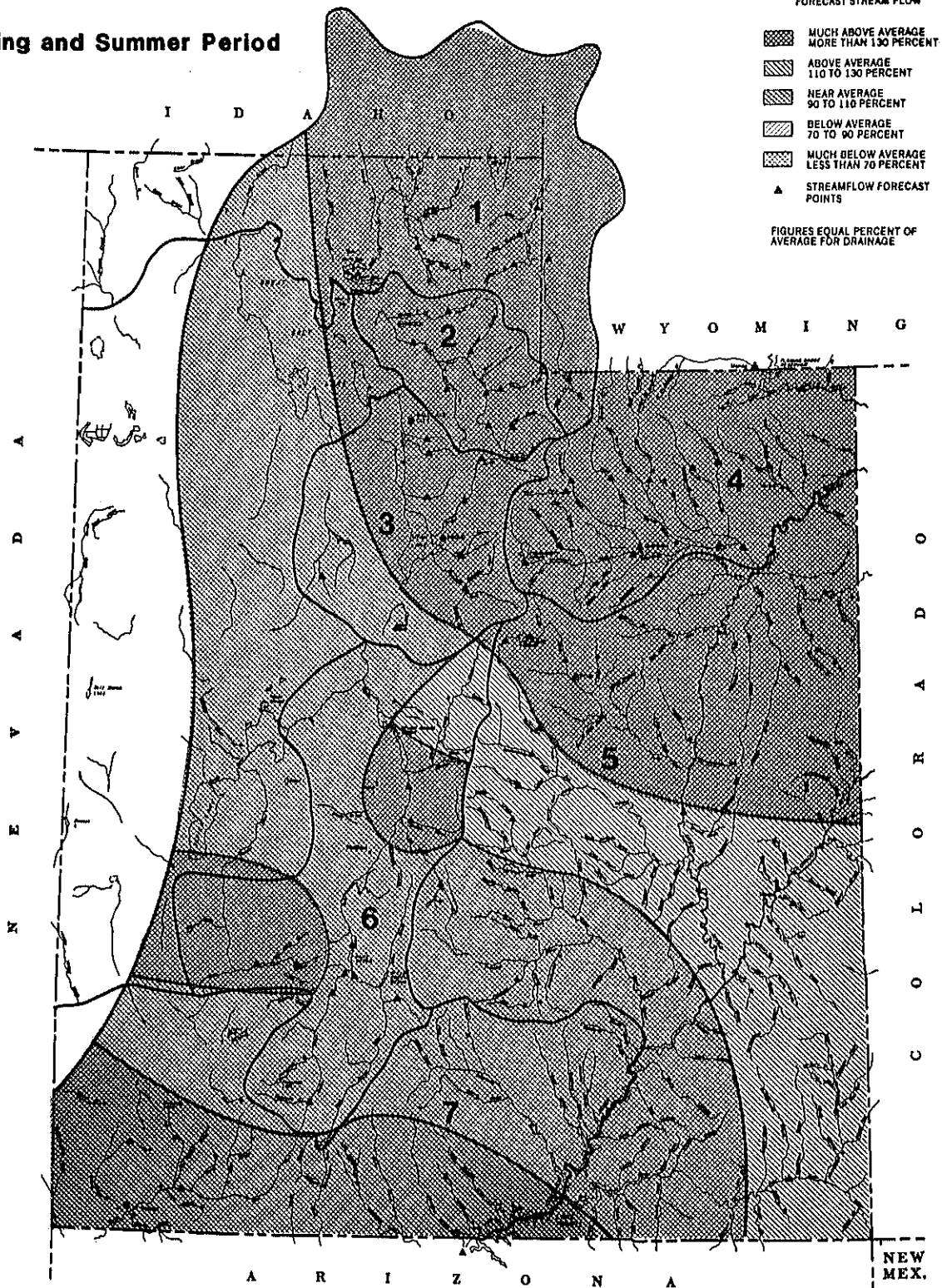
Utah State Department of Natural Resources	
Robert L. Morgan	D. Larry Anderson
State Engineer	Director
Division of Water Rights	Division of Water Resources

Prepared by

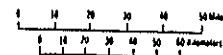
Jon G. Werner
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Soil Conservation Service
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Streamflow Prospects for Utah

Spring and Summer Period



- 1 BEAR RIVER BASIN
- 2 WEBER & OGDEN WATERSHEDS IN UTAH
- 3 UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
- 4 UNITAH BASIN & DAGGET SCD'S
- 5 CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO.
- 6 SEVIER & BEAVER RIVER BASINS
- 7 E. GARFIELD, KANE, WASHINGTON, & IRON CO.



GENERAL OUTLOOK

SUMMARY:

Record precipitation in areas of northern Utah produced record snowpack on some snow courses and flooding on the Bear and Weber Rivers. Preliminary estimates indicated the Weber at Gateway had set a new record peak flow. The situation in southern Utah is just opposite. Shallow snowpack, warm temperatures, early runoff and half-full reservoirs could lead to rationing.

SNOWPACK:

Snowpack across the state varies from record amounts in the north to no snow on some courses in the south. Rain on snow and warm temperatures have been responsible for some snow losses at lower elevations which resulted in flooding on the Bear and Weber and their tributaries. Areas of below to much below average snowpack exist in the Oquirrh Mountains, Blue Mountain, Upper Sevier and extreme southwestern corner of the state. Snowpack now ranges from 73% in the southwest to 150% of the March 1 average in the Uintas.

PRECIPITATION:

Precipitation at mountain stations for February was received in record amounts at some locations. Rainfall in excess of 15 inches was measured at several stations with Ben Lomond Peak, northeast of Ogden, receiving 25 inches. Mountain precipitation was above average across the state during February although southern Utah received much less than the north. Accumulations for the water year are above average across the state ranging from the southwest to 161% on the Weber-Ogden drainage.

RESERVOIRS:

Useable water stored in 28 of the reservoirs in the state as of the 138% of average and 79% of useable capacity. These reservoirs are only holding cumulative capacity. The only arid reservoirs are not expected to fill. Valley-Bull Valley Mountain area where the snowmelt runoff peak is already occurred and releases for already begun.

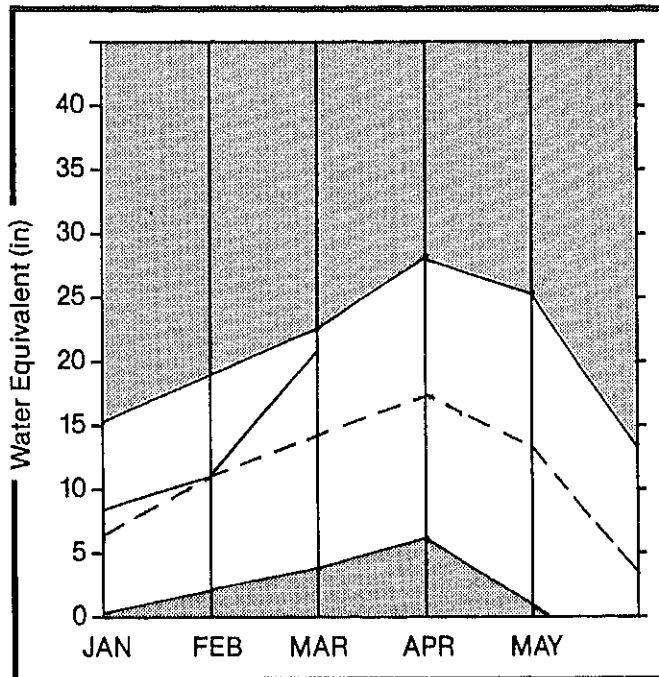
STREAMFLOW:

Streamflow forecasts have generally increased by 20 to 40% from the levels forecast a month ago due to heavy precipitation. The exceptions are in western and southern Utah where decreases of as much as 26% are projected. Warm weather during the last week of February and first week of March has melted a substantial amount of low and mid-elevation snow producing high early flows of water that would normally be stored in the snowpack for approximately another month.

*sent cooperative efforts of the Soil
her Service in an effort to provide
nd managers.*

Bear River Basin

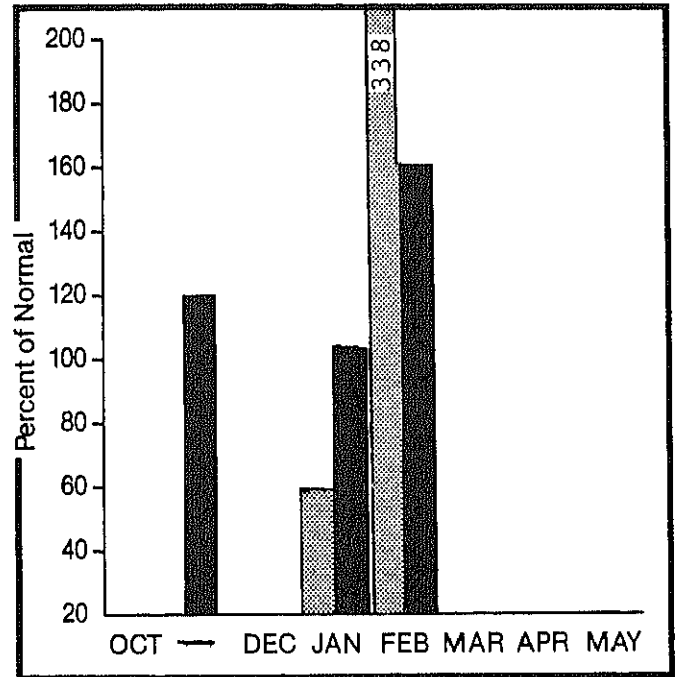
Mountain snowpack* (Inches)




*Based on selected stations

Maximum  Average 
Minimum  Current 

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Extremely heavy precipitation during February resulted in a dramatic increase in snowpack. Snowpack on the Bear River drainage is 147% of the March 1 average. Logan River snowpack is also 147% of the norm. Streamflow forecasts now range from 128 to 201% of average. Precipitation at mountain stations averaged 338% of average across the basin during February. Water year total accumulation is 161% of average. Reservoir storage as of the end of February was 112% of average.

For more information contact your local Soil
Conservation Service office:
Tremonton Field Office 801-257-5403
Logan Field Office 801-753-5616

BEAR RIVER BASIN

STREAMFLOW FORECASTS

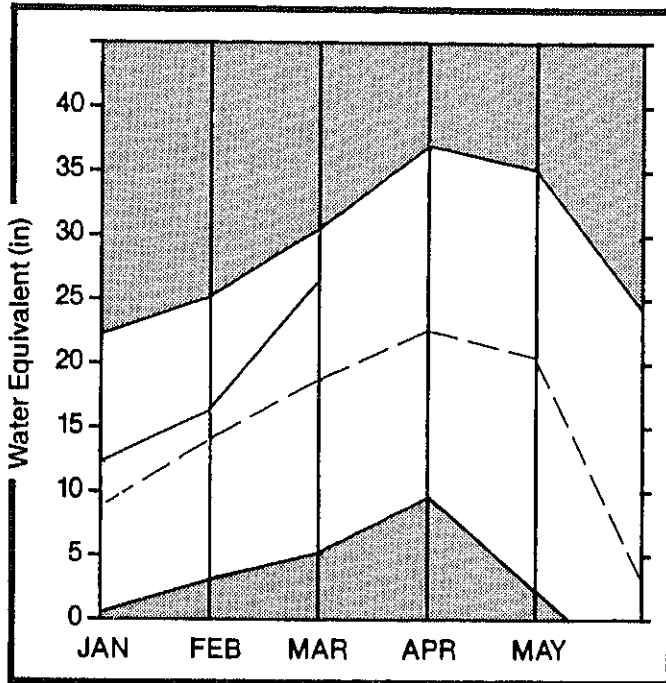
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
BEAR RIVER near UT-WY Stateline	APR-JUL	110.0	149.0	135	157	117	2042			
BEAR near Woodruff	APR-JUL	139.0	181.0	130	169	107				
WOODRUFF CREEK near Woodruff	APR-JUL	17.3	23.0	132	156	110	342			
BIG CREEK near Randolph	APR-JUL	5.3	9.5	179	226	132	89			
BEAR near Randolph	APR-JUL	110.0	222.0	201	258	145				
THOMAS FORK near Stateline	APR-SEP	35.0	50.4	144	169	120				
SMITHS FORK near Border	APR-SEP	119.0	170.0	142	167	118				
BEAR RIVER near Harer	APR-SEP	310.0	419.0	135	163	111				
LOGAN RIVER near Logan	APR-JUL	116.0	162.0	139	159	122	1421			
BLACKSMITH FORK near Hyrum	APR-JUL	51.0	69.0	135	169	104				
LITTLE BEAR RIVER near Paradise	APR-JUN	38.0	51.0	134	171	97	741			
CUB RIVER near Preston	APR-JUL	46.8	60.0	128	167	90				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
BEAR LAKE	1421.0	1089.0	1061.2	979.6	BEAR RIVER, UPPER IN UTAH	5	148	143
HYRUM	15.3	10.7	10.3	10.8	BEAR RIVER, LOWER IN UTAH	10	141	145
PORCUPINE	11.3	9.3	4.6	3.7	BEAR RIVER DRAINAGE IN UT	15	143	145
WOODRUFF NARROWS	55.8	34.2	57.8	---	BEAR RIVER, UPPER (above	11	165	144
WOODRUFF CREEK	NO REPORT				BEAR RIVER, LOWER (below	18	154	150
					BEAR RIVER DRAINAGE	28	157	147
					LOGAN RIVER	5	144	147
					RAFT RIVER	4	151	124
					BEAR RIVER BASIN	36	156	145

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Weber & Ogden Watersheds

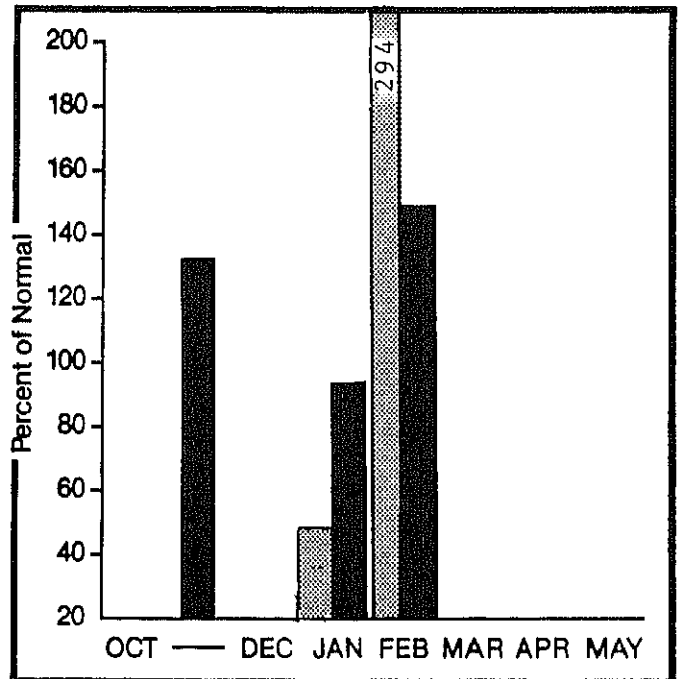
Mountain snowpack* (Inches)





*Based on selected stations

Maximum  Average 
 Minimum  Current 

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Several snow courses in the Weber River watershed have record March 1 snowpack as a result of record February precipitation. Snowpack on the Ogden River watershed is 143% of average and the Weber drainage is 144%. Streamflow forecasts now range from 128 to 194% of average for the upcoming April-June forecast period. Precipitation at mountain stations was nearly three times normal for February with amounts ranging to 25 inches recorded. Reservoir storage is 81% of capacity and 133% of average.

For more information contact your local Soil
 Conservation Service office:
 Layton Sub Office 801-544-9144

WEBER & OGDEN WATERSHEDS in Utah

STREAMFLOW FORECASTS

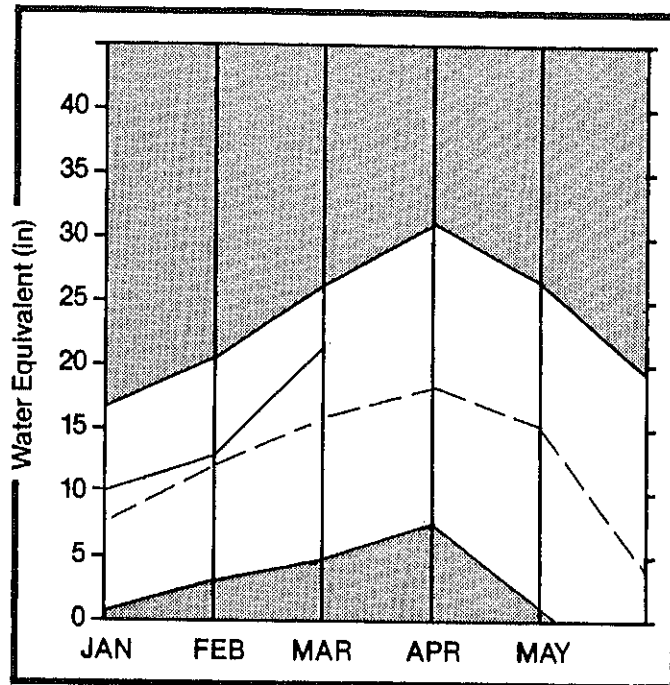
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	HIST PROBABLE (1000AF)	HIST PROBABLE (% AVE.)	REAS. MAY. (% AVE.)	REAS. JUN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
WEBER RIVER near Oakley	APR-JUN	102.0	154.0	150	176	129	2464			
ROCKPORT RESERVOIR inflow	APR-JUN	111.0	180.0	162	197	132				
CHALK CREEK near Coalville	APR-JUN	36.0	70.0	194	225	164	1000			
WEBER RIVER near Coalville	APR-JUN	119.0	196.0	164	194	139				
LOST CREEK near Crovden	APR-JUN	15.6	26.5	169	212	128				
EAST CANYON CREEK near Morgan	APR-JUN	25.0	32.0	128	164	100				
HARDSCRABBLE CREEK near Porterville	APR-JUN	18.4	24.6	133	185	87				
SOUTH FORK OGDEN RIVER near Huntsvil	APR-JUN	57.0	81.5	142	167	116				
PINEVIEW RESERVOIR inflow	APR-JUN	115.0	170.0	147	168	123				
ECHO RESERVOIR inflow	APR-JUN	145.0	257.0	177	206	151				
WEBER RIVER at Gateway	APR-JUN	300.0	511.0	170	193	147				
FARMINGTON CREEK near Farmington	APR-JUL	8.2	11.2	136	183	85				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVE.	WATERSHED	NO. COURSES AVE. D	THIS YEAR AS % OF LAST YR. AVERAGE
CAUSEY	6.9	3.5	1.8	2.3	OGDEN RIVER	4	132 143
EAST CANYON	48.1	43.5	26.6	35.6	WEBER RIVER	13	136 144
ECHO	73.9	46.0	43.1	49.5	WEBER & OGDEN WATERSHEDS	17	135 144
LOST CREEK	20.0	12.3	13.2	13.4			
PINEVIEW	110.1	94.7	51.4	48.7			
ROCKPORT	60.9	39.8	31.7	30.2			
WILLARD BAY	165.5	154.8	147.8	116.4			

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Utah Lake, Jordan River & Tooele Valley

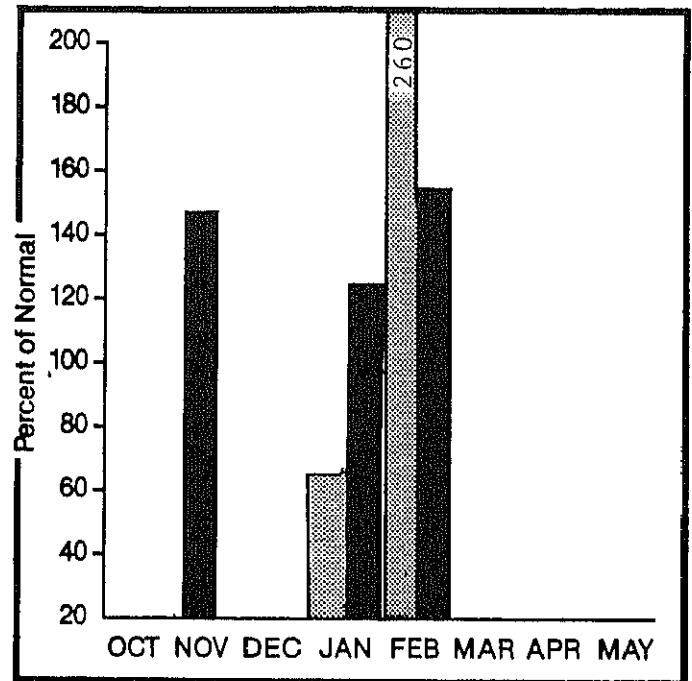
Mountain snowpack* (inches)



*Based on selected stations

Maximum Average
Minimum Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack on the Jordan River watershed has increased substantially from that of a month ago as a result of heavy precipitation and now stands at 122% of average. Tooele Valley watersheds, however, decreased by 26% and are now only 89% of average due to warm temperatures and below average rainfall. Streamflow forecasts now range from 90 to 110% of average. Mountain precipitation was 260% of average for the water year. Provo River-Utah Lake watershed in February for the water year. Reservoirs are 153% of average.

For more information contact your local Soil Conservation Service office:
Midvale Field Office 801-524-4373
Provo Field Office 801-377-5580

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

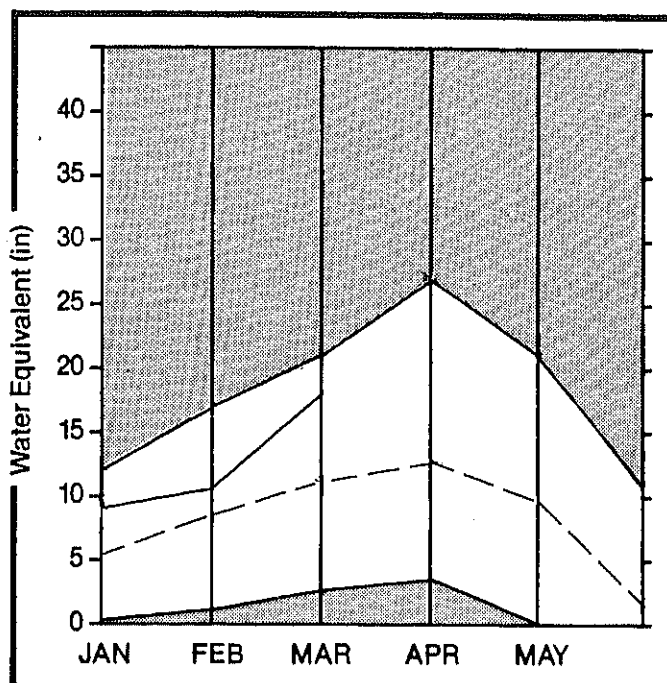
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
PROVO near Hailstone	APR-JUL	106.0	160.0	150	180	127	2300			
PROVO below Deer Creek Dam	APR-JUL	118.0	200.0	169	196	141				
AMERICAN FORK near American Fk.	APR-JUL	31.0	50.0	161	181	148	550			
HOBBLE CREEK near Springville	APR-JUL	18.7	32.0	171						
STRAWBERRY RESERVOIR inflow	APR-JUL	72.0	120.0	166	188	143				
PAYSON CREEK near Payson	APR-JUL	6.2	9.0	145						
UTAH LAKE inflow	APR-JUL	238.0	450.0	189	217	162				
LITTLE COTTONWOOD CRK near SLC	APR-JUL	38.0	52.0	136	153	124				
BIG COTTONWOOD CRK near SLC	APR-JUL	37.0	53.0	143	154	124				
PARLEY'S CREEK near SLC	APR-JUL	14.8	23.0	155	189	135				
MILL CREEK near SLC	APR-JUL	5.8	10.0	172	207	155				
EMIGRATION CREEK near SLC	APR-JUL	3.7	7.0	189						
CITY CREEK near SLC	APR-JUL	7.7	12.0	155	182	143				
SETTLEMENT CREEK near Tooele	APR-JUL	2.3	2.2	95	174	43				
SOUTH WILLOW CREEK near Grantsville	APR-JUL	8.0	2.7	50	133	33				
VERNON CREEK near Vernon	APR-JUN	0.83	0.91	110	167	53				

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE
DEER CREEK	149.7	139.3	113.7	95.5		PROVO RIVER & UTAH LAKE	10	137 138
GRANTSVILLE	3.3	2.3	---	---		PROVO RIVER	5	159 154
SETTLEMENT CREEK	1.0	0.8	0.0	0.5		JORDAN RIVER & GREAT SALT	5	102 112
STRAWBERRY-ENLARGED	951.4	354.7	244.0	---		TOOELE VALLEY WATERSHEDS	4	81 89
UTAH LAKE	883.9	1058.7	1166.6	689.4		UTAH LAKE, JORDAN RIVER &	17	115 121
VERNON CREEK	0.6	0.5	0.0	0.5				

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

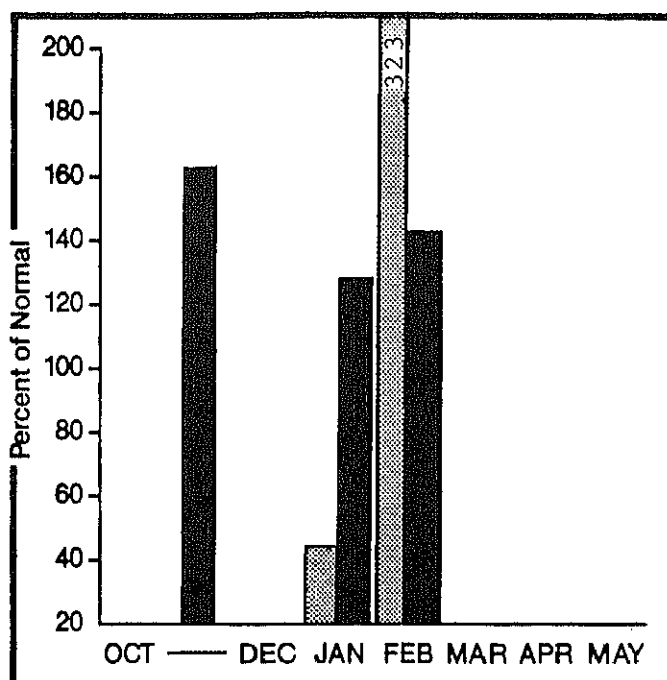
Mountain snowpack* (inches)



*Based on selected stations

Maximum  Average 
Minimum  Current 

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation  Year to date precipitation 

Heavy February precipitation increased the snowpack on all drainages. Several south slope courses set new records. Snowpack ranges from 112% on Sheep Creek to 186% of the March 1 average on the Lakefork and Yellowstone drainage. Streamflow forecasts are for much above average water supplies ranging from 126 to 214% of average. February precipitation at mountain stations was 323% of normal bringing the total for the water year to 142% of average. Reservoir storage is 86% of capacity and 134% of average.

For more information contact your local Soil Conservation Service office:
Roosevelt Field Office 801-722-4621

UINTAH BASIN & DAGGET SCD'S

STREAMFLOW FORECASTS

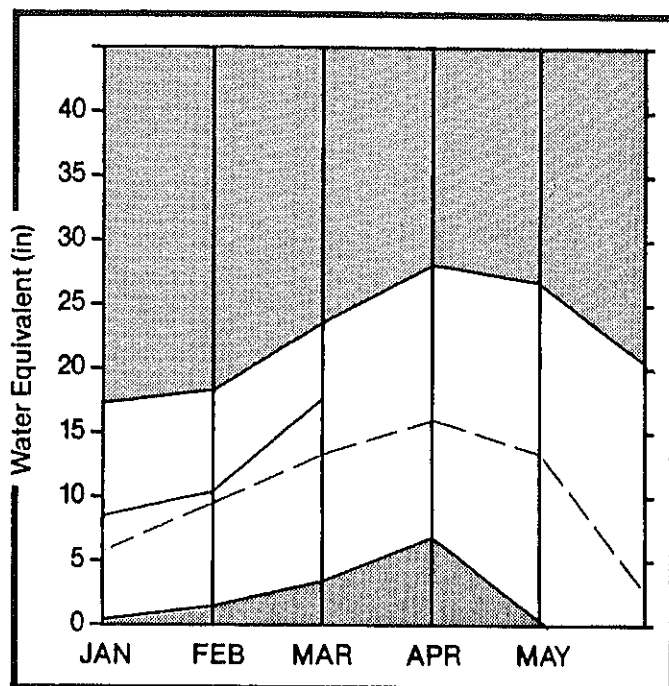
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
DUCHESNE RIVER near Tabiona	APR-JUL	105.0	160.0	152	169	133				
DUCHESNE RIVER near Duchesne	APR-JUL	189.0	290.0	153	174	133				
STRAWBERRY RIVER at Duchesne	APR-JUL	58.0	100.0	172	193	152	750			
ROCK CREEK near Mountain Home	APR-JUL	93.0	135.0	145	169	127	2000			
CURRENT CREEK near Fruitland	APR-JUL	20.0	32.0	160	180	140				
LAKEFORK RIVER near Mountain Home	APR-JUL	70.0	95.0	135	161	114				
YELLOWSTONE RIVER near Altonah	APR-JUL	65.0	90.0	138	174	103				
DUCHESNE near Mvton	APR-JUL	205.0	440.0	214	246	176				
WHITE ROCKS RIVER near Whiterocks	APR-JUL	58.0	85.0	146	188	105				
UINTAH RIVER near Neola	APR-JUL	86.0	130.0	151	192	110				
DUCHESNE near Randlett	APR-JUL	257.0	525.0	204	275	133				
WEST FORK DUCHESNE RIVER near Hanna	APR-JUL	26.0	42.0	161	181	138				
HENRY'S FORK near Manila	APR-SEP	48.0	62.5	130	169	100				
BLACK'S FORK near Millburne	APR-JUL	90.0	120.0	133	169	102				
FLAMING GORGE RESERVOIR inflow	APR-JUL	1248.0	1900.0	152	178	129				
ASHLEY CREEK near Vernal	APR-JUL	51.0	64.5	126	151	106				

RESERVOIR STORAGE (1000AF)		WATERSHED SNOWPACK ANALYSIS						
RESERVOIR	USEABLE CAPACITY	** THIS YEAR	USEABLE STORAGE LAST YEAR	** AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE	
FLAMING GORGE	3749.0	2958.0	3036.5	---	UPPER GREEN RIVER in UTAH	8	128	121
MOON LAKE	35.8	21.8	28.3	16.8	ASHLEY CREEK	2	128	119
RED FLEET	26.0	20.7	20.4	---	BLACK'S FORK RIVER	3	132	126
STEINAKER	33.3	32.6	30.2	21.1	SHEEP CREEK	2	117	112
STARVATION	165.3	147.3	126.0	112.1	DUCHESNE RIVER	11	159	163
STRAWBERRY-ENLARGED	951.4	954.7	244.0	---	LAKE FORK-YELLOWSTONE CRE	3	186	186
					STRAWBERRY RIVER	4	136	150
					UINTAH-WHITEROCKS RIVERS	2	169	169
					UINTAH BASIN & DAGGET SCD	20	151	150

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

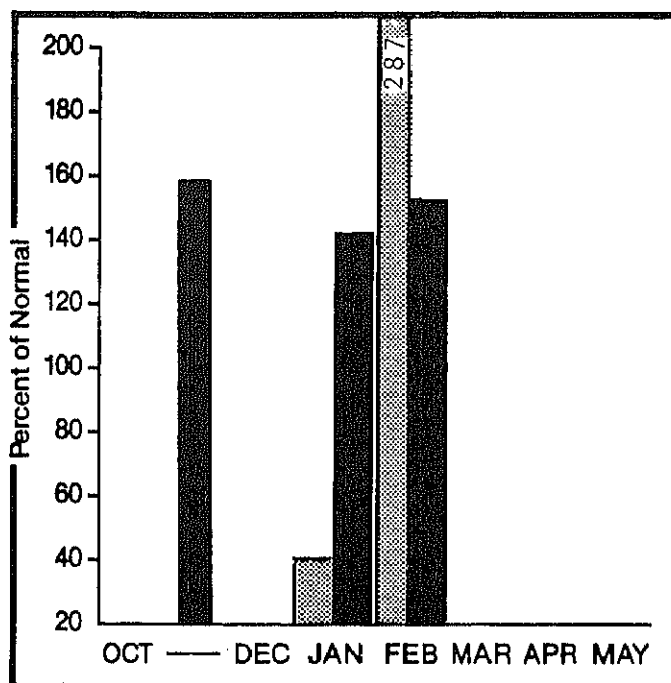
Carbon, Emery, Wayne, Grand, and San Juan Co.

Mountain snowpack* (Inches)





*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

Maximum  Average 
Minimum  Current 

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Southeastern Utah snowpack ranges from record levels in the north to below average in the south. Individual snow courses on the Price River mountains. Forecasts range from above to much above average to 155% of average for precipitation at mountain areas. Normal bringing it back to average. Reservoirs are at average levels.

For more information contact
Conservation Service office
Price Field Office

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.

STREAMFLOW FORECASTS

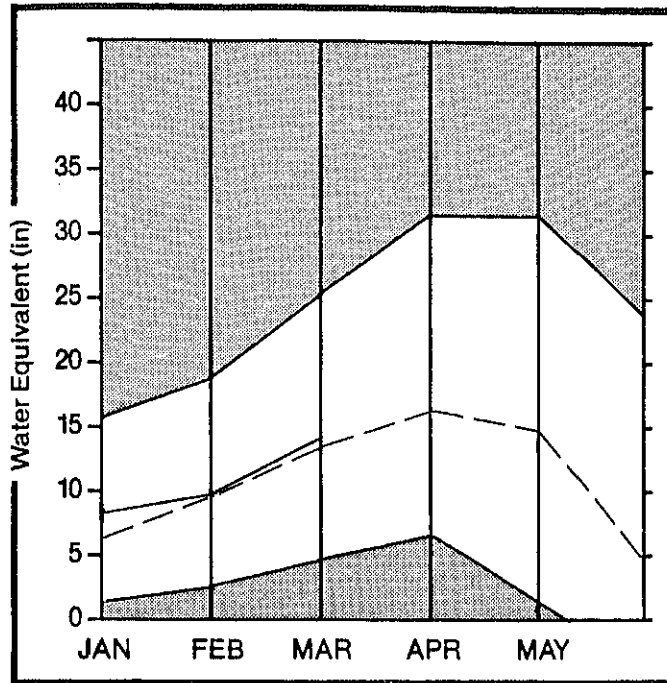
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
GOOSEBERRY CREEK near Scofield	APR-JUL	10.7	13.5	126	159	93				
SCOFIELD RESERVOIR inflow	APR-JUL	38.0	55.0	144	171	124				
PRICE near Heiner	APR-JUL	63.0	92.0	146						
HUNTINGTON CREEK near Huntington	APR-JUL	49.0	70.0	142	171	124				
COTTONWOOD CREEK near Orangeville	APR-JUL	47.0	60.0	127	162	94				
FERRON CREEK near Ferron	APR-JUL	37.0	48.0	129	168	92	600			
MUDDY CREEK near Emery	APR-JUL	18.5	24.0	129	168	92	200			
COLORADO near Cisco, UT	APR-JUL	3046.0	4350.0	142	183	112				
GREEN near Green Rv., UT	APR-JUL	3016.0	4700.0	155	183	129				
HILL CREEK near Moab	APR-JUL	5.5	6.5	118	164	73				
NAVAJO RESERVOIR inflow	APR-JUL	729.0	850.0	116	158	82				
SAN JUAN near Bluff, UT	APR-JUL	995.0	1150.0	115	163	77				
SEVEN MILE CREEK near Fish Lake	APR-JUL	6.5	7.1	109	154	77				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	THIS YEAR	LAST YEAR	AVERAGE	WATERSHED	NO. COURSES AVE.0	THIS YEAR AS % OF LAST YR. AVERAGE
HUNTINGTON NORTH	3.9	2.9	4.4	3.0		PRICE RIVER	3	139 139
JOE'S VALLEY	54.6	38.3	49.3	44.6		SAN RAFAEL RIVER	7	133 133
KEN'S LAKE	2.3	1.3	0.6	---		MUDDY RIVER	2	144 124
HILL SITE	16.7	9.2	11.0	4.0		FREMONT RIVER	3	118 115
NAVAJO	1696.0	1196.0	1372.0	752.3		LASAL MOUNTAINS	2	160 103
SCOFIELD	65.8	49.3	51.0	32.2		BLUE MOUNTAINS	2	92 95
						CARBON, EMERY, WAYNE, GRA	20	129 123

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Sevier & Beaver River Basins

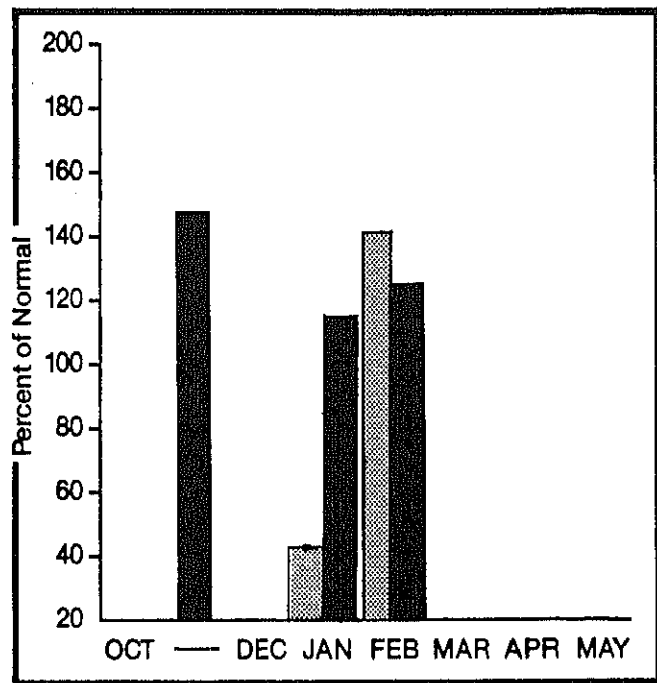
Mountain snowpack* (inches)



*Based on selected stations

Maximum  Average 
 Minimum  Current 

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Sevier River snowpack ranges from 86% of the March 1 average on the South Fork to 104% on the Lower Sevier. Beaver River snowpack is 146% of average. Streamflow forecasts, with the exception of Antimony Creek, remain above to much above average. Mountain precipitation, although of a lesser magnitude than received in the north, was 142% of the February average with water year accumulation of 125% of the October-February average. Reservoir storage is 96% of useable capacity and 177% of average.

For more information contact your local Soil Conservation Service office:
 Richfield Field Office 801-896-6261
 Fillmore Field Office 801-743-6655

SEVIER & BEAVER RIVER BASINS

STREAMFLOW FORECASTS

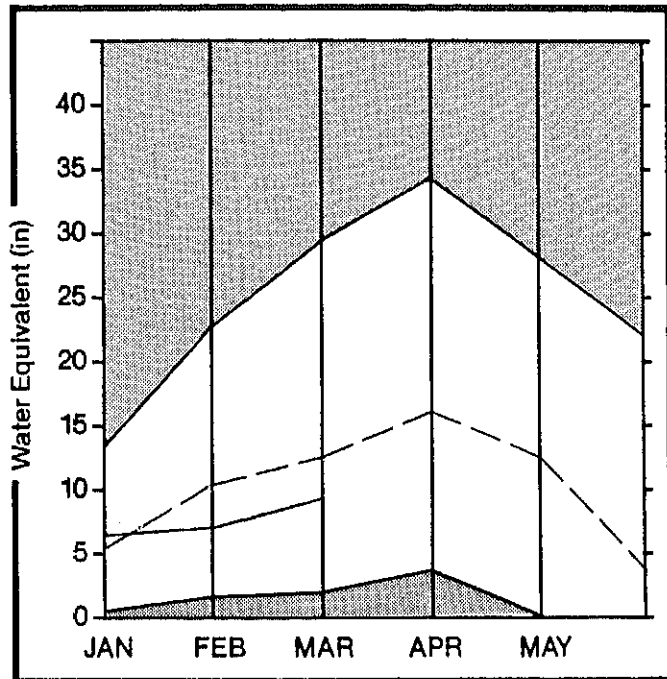
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
SEVIER at Hatch	APR-JUL	48.0	52.0	108	146	77	500			
SEVIER near Circleville	APR-JUL	38.0	50.0	131						
SEVIER near Kingston	APR-JUL	29.0	32.0	110	190	52	500			
ANTHONY CREEK near Anthony	APR-JUL	10.3	7.4	71						
E F SEVIER near Kingston	APR-JUL	18.9	22.0	116	180	79				
SEVIER b/w Piute Dam	APR-JUL	45.0	50.0	111	178	56				
CLEAR CREEK near Sevier	APR-JUL	18.9	21.0	111			300			
SIGURD to GUNNISON	APR-JUL	26.0	90.0	346	438	262				
KINGSTON to VERMILLION DAM	APR-JUL	45.0	60.0	133						
VERMILLION DAM to GUNNISON	APR-JUL	35.0	90.0	257						
SALINA CREEK at Salina	APR-JUL	11.9	22.0	184			600			
SEVIER nr Gunnison	APR-JUL	54.0	140.0	259						
CHALK CREEK near Fillmore	APR-JUL	16.4	17.7	107	146	73				
CHICKEN CREEK near Levan	APR-JUL	3.5	4.4	125	171	86				
OAK CREEK near Oak City	APR-JUL	1.6	1.7	106	188	56				
EPHRAIM CREEK near Ephraim	APR-JUL	14.9	19.0	127						
PLEASANT CREEK near Pleasant	APR-JUL	8.6	11.0	127						
SALT CREEK near Nephi	APR-JUL	13.5	13.5	100	170	22				
BEAVER RIVER near Beaver	APR-JUL	23.0	40.0	173	226	130	475			
NORTH CREEK near Beaver (combined N	APR-JUL	14.6	22.8	156	233	75				
MINERSVILLE RESERVOIR inflow	APR-JUN	8.9	22.7	255	303	202				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
GUNNISON	10.2	18.0	15.0	14.0	UPPER SEVIER RIVER (south	11	84	86
MINERSVILLE (Rk v Fd)	26.0	20.2	23.8	12.9	EAST FORK SEVIER RIVER	4	92	88
OTTER CREEK	52.5	52.0	47.7	31.2	SOUTH FORK SEVIER RIVER	7	81	86
PIUTE	71.8	66.7	71.8	41.5	LOWER SEVIER RIVER (inclu	12	108	104
SEVIER BRIDGE	236.0	231.9	217.2	119.6	BEAVER RIVER	3	139	146
PANQUITCH LAKE	22.3	19.2	20.3	---	SEVIER & BEAVER RIVER BAS	26	103	103

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

E. Garfield, Kane, Washington, & Iron Co.

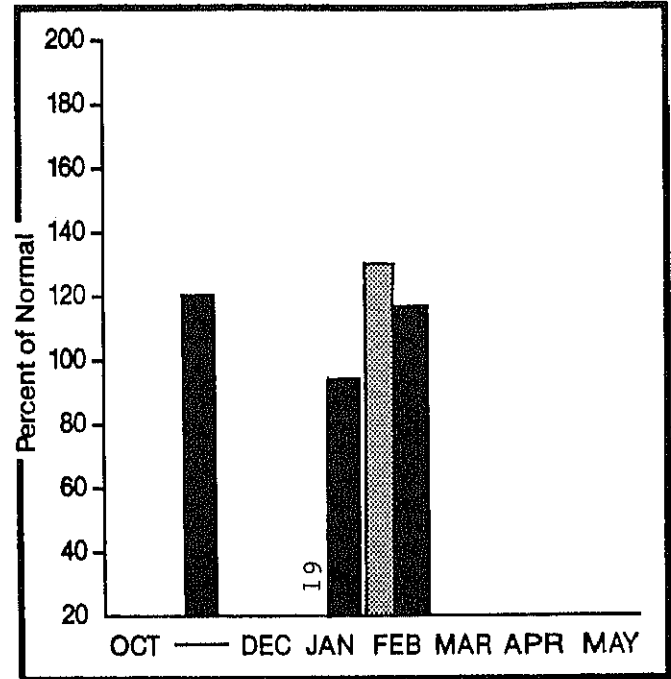
Mountain snowpack* (inches)



*Based on selected stations

Maximum Average
Minimum Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

Virgin River snowpack is 83% of average for March 1. Enterprise-New Harmony area has normally accumulated average temperature and forecast below average above average on Coal for Lake Powell Inflow 130% of average for February. Reservoir capacity with most reservoirs.

For more information contact
Conservation Service Office
Cedar City Field Office

E. GARFIELD, KANE, WASHINGTON, & IRON Co.

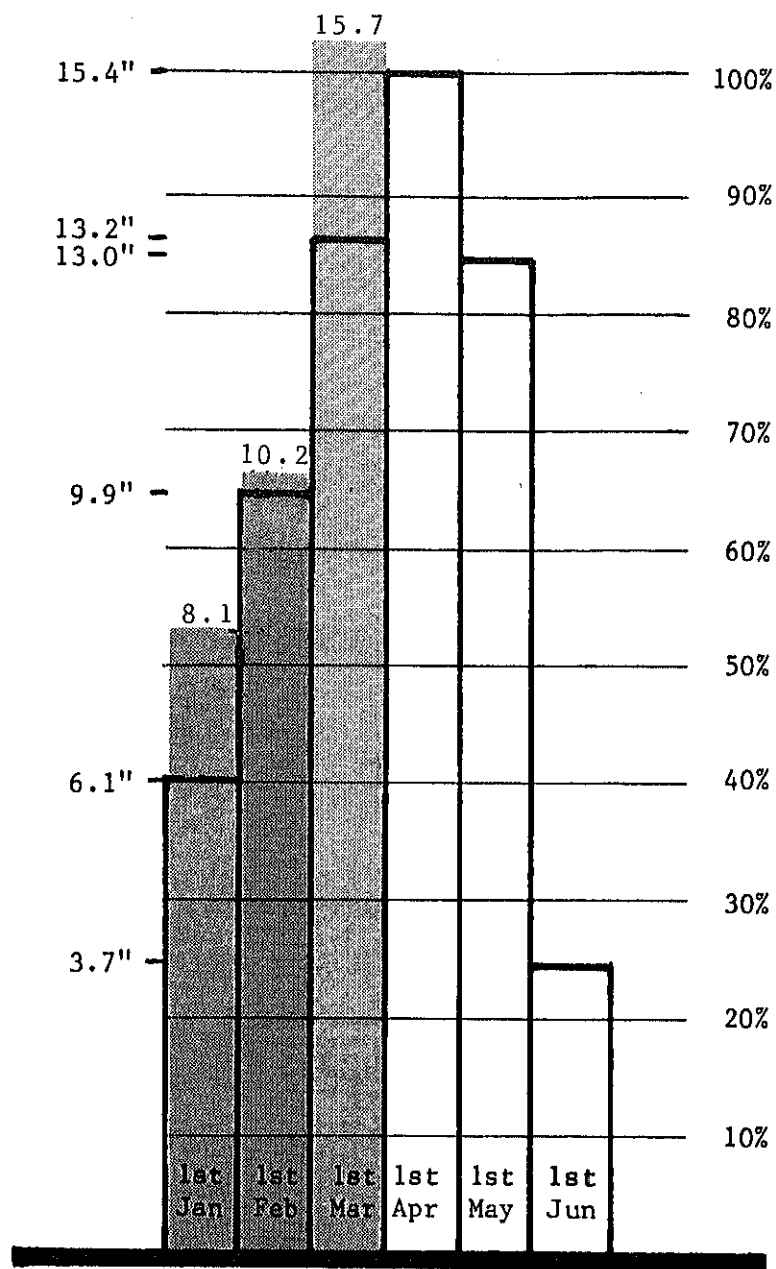
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
VIRGIN near Hurricane	APR-JUN	62.0	45.0	72	110	34	600			
SANTA CLARA near Pine Valley	APR-JUN	5.3	4.7	88						
COAL CREEK near Cedar City	APR-JUL	18.4	21.0	114	152	92	350			
LAKE POWELL inflow	APR-JUL	7462.0	11000.0	147	183	116				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE	
BLUE MESA	830.0	396.0	430.0	344.0	VIRGIN RIVER	5	77	83
LAKE POWELL	25002.0	22446.0	21348.0	---	PAROWAN	4	85	74
					ENTERPRISE TO NEW HARMONY	2	23	30
					COAL CREEK	3	85	83
					ESCALANTE RIVER	1	99	96
					E. GARFIELD, KANE, WASHIN	12	73	73

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Utah Snowpack Progress

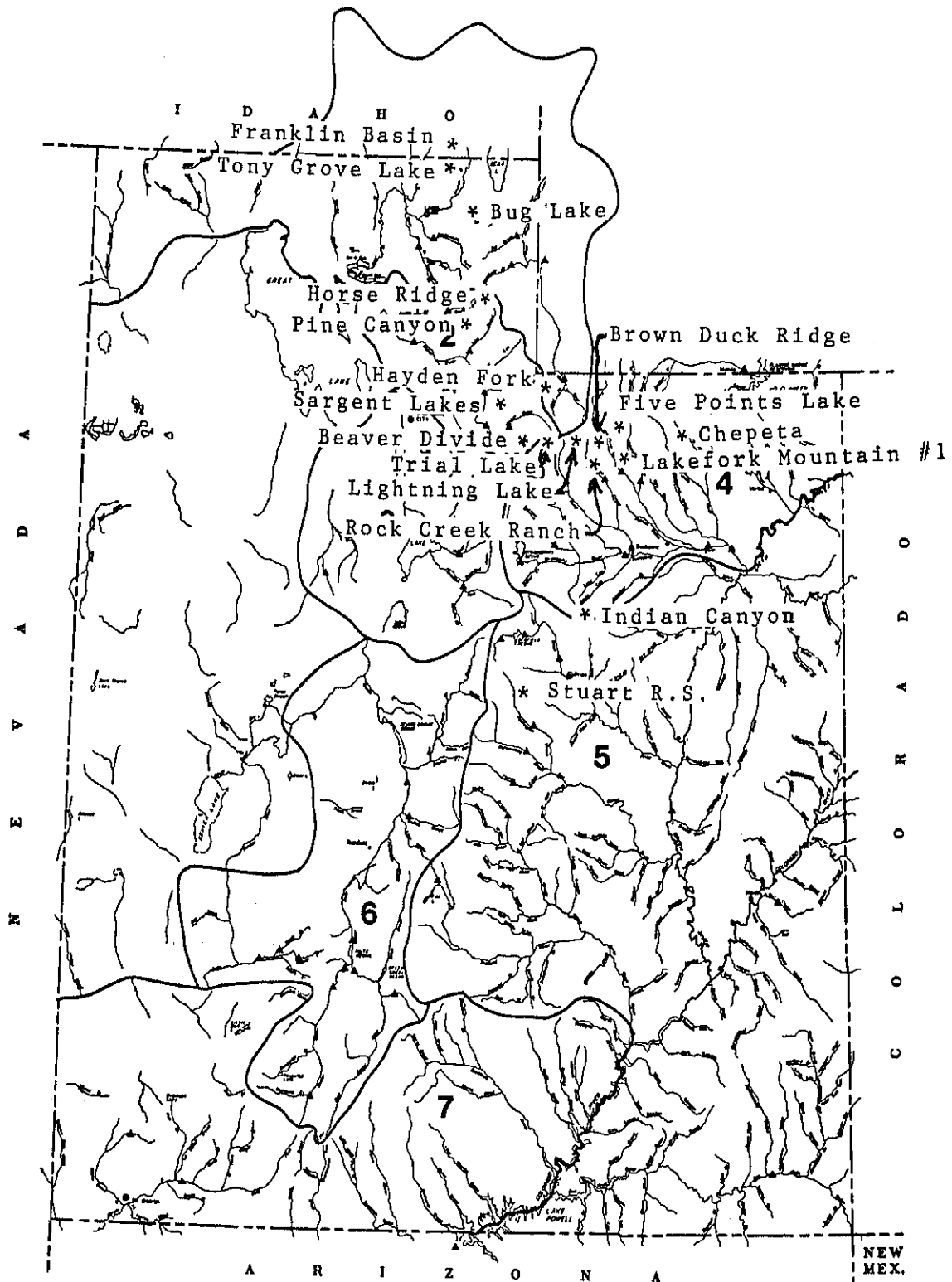


Statewide

Snow water equivalent in inches is compared to maximum seasonal amounts at 100 %.

Monthly S.W.E. averages for each course in the state are accumulated and averaged by month

*=NEW RECORD MARCH 1 SNOW WATER EQUIVALENT



The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

State

Utah State University
Utah State Department of Natural Resources
Division of Wildlife Resources
Division of Water Resources
Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

Federal

U.S. Department of Agriculture
Soil Conservation Service
Forest Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

Municipality

Manti
Salt Lake City

Public

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Central Utah Conservancy District
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association
Weber River Water Users Association
Weber Basin Conservancy District

Other organizations and individuals furnish
information for the snow survey reports.
Their cooperation is gratefully acknowledged.

All programs and services of U.S. Dept.
of Agriculture are available to everyone
without regard to race, creed, color, sex,
age, handicap, or national origin.